AGENDA Signal and Image Sciences Conference

Center for Advanced Signal and Image Sciences Lawrence Livermore National Laboratory

THURSDAY, NOVEMBER 20, 2008 BUILDING 482 AUDITORIUM

8:00 AM 8:45 AM 8:55 AM 9:00 AM	Registration, Distribution of Proceedings and Continental Breakfast Opening Remarks, Introductions	Monya Lane, Acting Engineering AD		
10:00 AM 10:15 AM	BREAK NIC Shot Data Information - Optical through Nuclear	Dr. Otto Landen, Associate Program Leader for Target Physics, ICF and HED Science Program, NIF and Photon Science Directorate		
NIF 1: Diagnostics Analysis Session Chair: Tim Frazier				
11:00 AM 11:15 AM 11:30 AM	Measuring Drive Symmetry at NIF with Gated X-Ray Camera Ima NIF Dante Target Diagnostic Analysis	n Facility Essex Bond ment System, Charlie Brown		
NIF 2: Controls and Optics Inspections Session Chair: Karl Wilhelmsen				
1:00 PM 1:15 PM 1:30 PM 1:45 PM 2:00 PM	Alternative to Hough Transform-based Alignment	Abdul Awwal /isualizations Wade Williams		
Radiation Detection for Homeland Security Session Chair: Harry Martz				
2:15 PM 2:30 PM 2:45 PM 3:00 PM 3:15 PM	Hardware Architecture for Image Development Database (IDD) Bayesian Sequential Processing for Radionuclide Parameter Esti Signal Processing Model for Radiation Transport Adaptive Noise Cancellation for Mechanical HPGe Detectors Use of X-rays to Detect HomeMade Explosives (HME) and Next X-ray Systems	mation Eric Breitfeller Dave Chambers Karl Nelson Generation Harry Martz		
3:30 PM 3:45 PM	3-1-1 Baggies ADJOURN	Cary Pincus		

AGENDA Signal and Image Sciences Conference

Center for Advanced Signal and Image Sciences Lawrence Livermore National Laboratory

FRIDAY, NOVEMBER 21, 2008 BUILDING 482 AUDITORIUM

8:00 AM	Registration, Distribution of Proceedings and Continental Breakfast		
8:45 AM 9:00 AM	Opening Remarks, Introductions	· · · · · · · · · · · · · · · · · · ·	
	Special Session Pattern Recognition for Cyber Security: Session Chair: Tina Eliassi-Rad		
	Session chair. Thia Enassi naa		
9:30 AM	Situational Awareness at Internet Scale—Detection of Extremely Rare Crisis Periods		
9:50 AM 10:10 AM	Analysing Network Traffic Data Using Latent Dirichlet Allocation for Gra Classification of HTTP Attacks: A Study on the ECML/PKDD		
	2007 Discovery Challenge	Brian Gallagher	
10:30 AM	BREAK		
	Advanced Imaging and Controls Session Chair: Sean Lehman		
	VisiBuilding: Remote Non-Invasive Building Floor Plan Identification Predictive Control for Astronomical Adaptive Optics: Experimental	Sean Lehman	
	Verification of the Frozen Flow HypothessisVisualizing Single Cell Biology: Nanosims Studies of Carbon and	Lisa Poyneer	
	Nitrogen Metabolism in Bacteria	Jennifer Pett-Ridge	
11:30 AM	Using Supercomputers to Advance Robotics	Freddy Hansen	
	Wide-Area Surveillance Technologies Session Chair: Randy Roberts		
11:45 AM	Scalable Data Architectures for Object Identification and Synaptic Cueing in Wide-Area Video Imagery	Holger Jones	
12:00 PM	Gigapan, Photosynth, and Stereo Data Maker	John Toeppen	
	Novel Architectures and Progressive Algorithms for Real-Time		
12:30 PM	Analysis of Streaming DataVehicle Tracking and Super-Resolution in Overhead Video		
12:45 PM	Lunch and Adjourn		